Product Overview

LUPA3000: CMOS Image Sensor, High Speed, 3 Megapixel, 485 FPS, 13.3 Gb

For complete documentation, see the data sheet

Product Description

LUPA3000 CMOS image sensor features industry leading digital data throughput of 13.2 Gbps. The 3.0 megapixel sensor offers a triggered and pipelined global shutter with a high frame rate of 485 frames per second (fps) and windowing capability for undistorted images and fast readout. The sensor also features on-chip digital LVDS (Low Voltage Differential Signaling) outputs that simplify the transport of sensor data and overall camera design for machine vision and holographic data storage applications. The sensor also has a dual slope capability to maintain good contrast in shadowed regions without saturating bright areas in scenes with a high contrast ratio.

Features

- Windowing capability
- Integrated digital LVDS outputs
- Dual slope capability
- Digital data throughput of 13.2 Gbps
- Triggered and pipelined global shutter with a high frame rate of 485 fps

Benefits

- Provides undistorted images and fast readout
- Simplifies the transport of sensor data and overall camera design
- Provides good contrast in shadowed regions without saturating bright areas

Applications

- High speed machine vision
- Holographic data storage
- Motion analysis
- Industrial imaging

End Products

- Medical imaging systems
- Intelligent traffic systems

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Color	Package Type
NOIL1SE3000A-GDC	Pb-free Halide free	Active	CMOS	3	485	1 inch	Pipelined and Triggered Global	8.0 x 8.0	Color	CPGA-369
NOIL1SN3000A-GDC	Pb-free Halide free	Active	CMOS	3	485	1 inch	Pipelined and Triggered Global	8.0 x 8.0	Mono	CPGA-369

For more information please contact your local sales support at www.onsemi.com

Created on: 7/11/2015